

DERWENT-ACC-NO: 2001-476681

DERWENT-WEEK: 200627

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TITLE: Double metal cyanide catalyst for polyether-
polyol
production contains double metal cyanide
compound,
organic ligand, e.g. tertiary-butanol, and two
or more
complex-formers such as functional polymers or
phosphorus
compounds

INVENTOR: EHLERS, S; HOFMANN, J ; OOMS, P ; STEINLEIN, C

PATENT-ASSIGNEE: BAYER AG[FARB] , BAYER MATERIALSCIENCE AG[FARB]

PRIORITY-DATA: 1999DE-1053546 (November 8, 1999)

PATENT-FAMILY:

PUB-NO	MAIN-IPC	PUB-DATE	LANGUAGE
PAGES			
MX 229461 B		July 26, 2005	N/A
000	B01J 027/26		
DE <u>19953546</u> A1		May 10, 2001	N/A
009	B01J 031/22		
AU 200112757 A		June 6, 2001	N/A
000	B01J 027/26		
WO 200134297 A2		May 17, 2001	G
000	B01J 027/26		
BR 200015395 A		July 2, 2002	N/A
000	B01J 027/26		
EP 1239957 A2		September 18, 2002	G
000	B01J 027/26		
CZ 200201552 A3		October 16, 2002	N/A
000	B01J 027/26		
KR 2002059698 A		July 13, 2002	N/A
000	B01J 027/26		
CN 1387460 A		December 25, 2002	N/A
000	B01J 027/26		
JP 2003514073 W		April 15, 2003	N/A
047	C08G 065/28		
HU 200203685 A1		April 28, 2003	N/A
000	B01J 027/26		
MX 2002004552 A1		November 1, 2002	N/A
000	B01J 027/26		

EP 1428575 A2	June 16, 2004	G
000 B01J 027/26		
EP 1428576 A1	June 16, 2004	G
000 B01J 027/26		
CN 1494947 A	May 12, 2004	N/A
000 B01J 027/26		
EP 1239957 B1	April 6, 2005	G
000 B01J 027/26		
DE 50010010 G	May 12, 2005	N/A
000 B01J 027/26		
RU 2254164 C2	June 20, 2005	N/A
000 B01J 027/26		
US 6919293 B1	July 19, 2005	N/A
000 B01J 031/00		
ES 2240194 T3	October 16, 2005	N/A
000 B01J 027/26		
CN 1144616 C	April 7, 2004	N/A
000 B01J 027/26		

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR
 CU CZ DE
 DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
 LC LK LR
 LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK
 SL TJ TM
 TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH
 GM GR IE
 IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW AL AT BE CH CY DE
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 FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI AT BE CH CY DE DK ES
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 LI LU MC
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 SE

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
MX 229461B	N/A	2000WO-EP10550
October 26, 2000		
MX 229461B	N/A	2002MX-0004552
May 7, 2002		
MX 229461B	Based on	WO 200134297
N/A		
DE 19953546A1	N/A	1999DE-1053546
November 8, 1999		
AU 200112757A	N/A	2001AU-0012757
October 26, 2000		

AU 200112757A	Based on	WO 200134297
N/A		
WO 200134297A2	N/A	2000WO-EP10550
October 26, 2000		
BR 200015395A	N/A	2000BR-0015395
October 26, 2000		
BR 200015395A	N/A	2000WO-EP10550
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BR 200015395A	Based on	WO 200134297
N/A		
EP 1239957A2	N/A	2000EP-0974461
October 26, 2000		
EP 1239957A2	N/A	2000WO-EP10550
October 26, 2000		
EP 1239957A2	Based on	WO 200134297
N/A		
CZ 200201552A3	N/A	2000WO-EP10550
October 26, 2000		
CZ 200201552A3	N/A	2002CZ-0001552
October 26, 2000		
CZ 200201552A3	Based on	WO 200134297
N/A		
KR2002059698A	N/A	2002KR-0705872
May 7, 2002		
CN 1387460A	N/A	2000CN-0815309
October 26, 2000		
JP2003514073W	N/A	2000WO-EP10550
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JP2003514073W	N/A	2001JP-0536289
October 26, 2000		
JP2003514073W	Based on	WO 200134297
N/A		
HU 200203685A1	N/A	2000WO-EP10550
October 26, 2000		
HU 200203685A1	N/A	2002HU-0003685
October 26, 2000		
HU 200203685A1	Based on	WO 200134297
N/A		
MX2002004552A1	N/A	2000WO-EP10550
October 26, 2000		
MX2002004552A1	N/A	2002MX-0004552
May 7, 2002		
MX2002004552A1	Based on	WO 200134297
N/A		
EP 1428575A2	Div ex	2000EP-0974461
October 26, 2000		
EP 1428575A2	N/A	2004EP-0005548
October 26, 2000		
EP 1428575A2	Div ex	EP 1239957
N/A		

EP 1428576A1	Div ex	2000EP-0974461
October 26, 2000		
EP 1428576A1	N/A	2004EP-0005549
October 26, 2000		
EP 1428576A1	Div ex	EP 1239957
N/A		
CN 1494947A	N/A	2003CN-0158465
October 26, 2000		
EP 1239957B1	N/A	2000EP-0974461
October 26, 2000		
EP 1239957B1	N/A	2000WO-EP10550
October 26, 2000		
EP 1239957B1	Related to	2004EP-0005548
October 26, 2000		
EP 1239957B1	Related to	2004EP-0005549
October 26, 2000		
EP 1239957B1	Related to	EP 1428575
N/A		
EP 1239957B1	Related to	EP 1428576
N/A		
EP 1239957B1	Based on	WO 200134297
N/A		
DE 50010010G	N/A	2000DE-0510010
October 26, 2000		
DE 50010010G	N/A	2000EP-0974461
October 26, 2000		
DE 50010010G	N/A	2000WO-EP10550
October 26, 2000		
DE 50010010G	Based on	EP 1239957
N/A		
DE 50010010G	Based on	WO 200134297
N/A		
RU 2254164C2	N/A	2000WO-EP10550
October 26, 2000		
RU 2254164C2	N/A	2002RU-0115639
October 26, 2000		
RU 2254164C2	Based on	WO 200134297
N/A		
US 6919293B1	N/A	2000WO-EP10550
October 26, 2000		
US 6919293B1	N/A	2002US-0129579
May 7, 2002		
US 6919293B1	Based on	WO 200134297
N/A		
ES 2240194T3	N/A	2000EP-0974461
October 26, 2000		
ES 2240194T3	Based on	EP 1239957
N/A		
CN 1144616C	N/A	2000CN-0815309
October 26, 2000		

1494947 A , EP 1239957 B1 , DE 50010010 G
INT-CL (IPC): B01J027/26 , B01J031/00 , B01J031/02 , B01J031/06 ,
B01J031/22 , B01J031/26 , C07F003/06 , C07F009/40 , C07F015/06 ,
C07F019/00 , C08F004/50 , C08F004/60 , C08G065/00 , C08G065/02 ,
C08G065/10 , C08G065/26 , C08G065/28 , C08L071/02

ABSTRACTED-PUB-NO: DE 19953546A

BASIC-ABSTRACT:

NOVELTY - Double metal cyanide catalysts containing, in addition to
(a) double
metal cyanides and (b) organic ligands, (c) 2 or more complex-formers
other
than (b) comprising functionalized polymers such as polyethers or
polyacrylamide (26 types listed) or compounds such as glycidyl
ethers,
cyclodextrins, gallic acid or phosphorus compounds (11 types listed).

DETAILED DESCRIPTION - Double metal cyanide (DMC) catalyst containing
(a) DMC
compound(s), (b) organic complex ligand(s) other than (c), (c) two or
more
complex-forming components (other than b) comprising functionalized
polymers
selected from polyethers, polyesters, polycarbonates, polyalkylene
glycol
sorbitan esters, polyalkylene glycol glycidyl ethers, polyacrylamide,
acrylamide-acrylic acid copolymers, polyacrylic acid, acrylic acid-
maleic acid
copolymers, polyacrylonitrile, poly(meth)acrylates, poly-vinyl methyl
ether,
poly-vinyl ethyl ether, polyvinyl acetate, polyvinyl alcohol,
poly-(N-vinylpyrrolidone), N-vinylpyrrolidone-acrylic acid
copolymers,
poly-vinyl methyl ketone, poly-(4-vinylphenol), acrylic acid-styrene
copolymers, oxazoline polymers, polyalkylene-imines, maleic acid or
anhydride
copolymers, hydroxyethylcellulose and polyacetals, or glycidyl
ethers,
glycosides, carboxylate esters of polyhydric alcohols, gallic acids
and their
salts, esters or amides, cyclodextrins, phosphorus compounds, alpha ,
beta
-unsaturated carboxylate esters and ionic surface-active or
interfacially
active compounds. INDEPENDENT CLAIMS are also included for:

(i) production of DMC catalysts by (1) reacting (A) metal salts and metal cyanide salts in aqueous solution with (B) complex ligands selected from functionalized polymers, glycidyl ethers, glycosides, carboxylate esters of polyhydric alcohols, gallic acids or their salts, esters or amides, cyclodextrins, phosphorus compounds, alpha , beta -unsaturated carboxylic acid esters or ionic surface- or interfacially-active compounds and (C) 2 or more complex-formers (c) as above and then (2) isolating, washing and drying the catalyst;

(ii) production of polyether-polyols by reaction of alkylene oxides with H-functional starter compounds in presence of DMC catalysts as above; and

(iii) polyether-polyols obtained by this process.

USE - For the production of polyether-polyols by polyaddition of alkylene oxides to starter compounds with active hydrogen atoms (claimed). The polyols obtained are used for the production of polyurethanes.

ADVANTAGE - Improved double metal cyanide catalysts with greatly increased activity, enabling shorter alkoxylation times and more economical production of polyether-polyols (ideally using so little catalyst that the product can be used directly for the production of polyurethane without removing catalyst residues).

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: DOUBLE METAL CYANIDE CATALYST POLYETHER PRODUCE CONTAIN DOUBLE

METAL CYANIDE COMPOUND ORGANIC LIGAND TERTIARY BUTANOL
TWO MORE

COMPLEX FORMER FUNCTION POLYMER PHOSPHORUS COMPOUND

DERWENT-CLASS: A25 A97 E19

CPI-CODES: A02-A06; A02-A07; A05-G03; A05-H01A; A10-E01; A12-W11K; E01; E05-G;

E06-A03; E07-A03B; E10-C03; E10-D03C; E10-E04C; E10-E04L3; E10-G02;
E32-B; N05-C;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H4 H401 H481 H5 H521 H8 M280 M312 M321 M332
M342 M383 M391 M423 M730 M782 M904 M905 M910 Q121
Q421 R023

Specific Compounds

01859K 01859C 01859Q 01859M A016GK A016GC A016GQ A016GM

Registry Numbers

1859S 1859U

Chemical Indexing M3 *02*

Fragmentation Code

H7 H714 H721 J5 J581 M210 M211 M212 M262 M282
M320 M423 M730 M782 M904 M905 Q121 Q421 R023

Specific Compounds

A4FH9K A4FH9C A4FH9Q A4FH9M

Chemical Indexing M3 *03*

Fragmentation Code

F011 F012 F423 H2 H211 H7 H713 H721 J5 J521
L9 L941 M210 M212 M273 M281 M320 M423 M510 M521
M530 M540 M730 M782 M904 M905 Q121 Q421 R023

Specific Compounds

A002WK A002WC A002WQ A002WM

Chemical Indexing M3 *04*

Fragmentation Code

H7 H713 J0 J011 J2 J271 M210 M211 M212 M262
M272 M281 M423 M510 M520 M530 M540 M730 M782 M904
M905 Q121 Q421 R023

Specific Compounds

A012NK A012NC A012NQ A012NM

Chemical Indexing M3 *05*

Fragmentation Code

H4 H401 H481 H7 H713 H721 H8 M210 M212 M272
M281 M320 M423 M510 M520 M530 M540 M730 M782 M904
M905 Q121 Q421 R023

Specific Compounds

A01EAK A01EAC A01EAQ A01EAM

Chemical Indexing M3 *06*

Fragmentation Code

H7 H714 H721 K0 L1 L145 M210 M212 M263 M281
M320 M423 M730 M782 M904 M905 Q121 Q421 R023

Specific Compounds
A02NXK A02NXC A02NXQ A02NXM

Chemical Indexing M3 *07*

Fragmentation Code

H7 H714 H721 J0 J011 J1 J171 M210 M212 M262
M281 M320 M423 M510 M520 M530 M540 M630 M730 M782
M904 M905 Q121 Q421 R023

Specific Compounds

A02L0K A02L0C A02L0Q A02L0M A037TK A037TC A037TQ A037TM

Chemical Indexing M3 *08*

Fragmentation Code

H7 H714 H721 J0 J011 J1 J171 M210 M213 M262
M281 M320 M423 M510 M520 M530 M540 M730 M782 M904
M905 Q121 Q421 R023

Specific Compounds

A07AEK A07AEC A07AEQ A07AEM

Chemical Indexing M3 *09*

Fragmentation Code

M730 M782 M905 Q121 Q421 R023

Specific Compounds

A03C2K A03C2C A03C2Q A03C2M

Chemical Indexing M3 *10*

Fragmentation Code

H7 H714 H721 J0 J011 J3 J371 M210 M212 M262
M281 M320 M423 M510 M520 M530 M540 M730 M782 M904
M905 Q121 Q421 R023

Specific Compounds

A035MK A035MC A035MQ A035MM

Chemical Indexing M3 *11*

Fragmentation Code

H4 H401 H481 H8 M210 M214 M233 M272 M281 M320
M416 M620 M730 M782 M904 M905 M910 Q121 Q421 R023

Specific Compounds

00373K 00373C 00373Q 00373M

Registry Numbers

0373S 0373U

Chemical Indexing M3 *12*

Fragmentation Code

A427 A430 A940 A980 C106 C107 C520 C730 C801 C802
C803 C806 C807 M411 M730 M782 M904 M905 Q121 Q421
R023

Specific Compounds

A3DAGK A3DAGC A3DAGQ A3DAGM

Chemical Indexing M3 *13*

Fragmentation Code

G017 G100 H4 H403 H443 H8 J0 J011 J1 J131
M280 M320 M414 M510 M520 M531 M540 M730 M782 M904
M905 M910 Q121 Q421 R023

Specific Compounds

01170K 01170C 01170Q 01170M 09472K 09472C 09472Q 09472M

Registry Numbers

1170S 1170U

Chemical Indexing M3 *14*

Fragmentation Code

B415 B701 B712 B720 B741 B815 B831 J0 J011 J2
J271 M210 M212 M272 M283 M312 M321 M331 M340 M342
M349 M361 M391 M411 M510 M520 M530 M540 M620 M730
M782 M904 M905 Q121 Q421 R023

Specific Compounds

A4FHHK A4FHHC A4FHHQ A4FHHM

Chemical Indexing M3 *15*

Fragmentation Code

J0 J013 J2 J273 M210 M215 M231 M262 M283 M313
M321 M332 M343 M383 M391 M416 M620 M730 M782 M904
M905 Q121 Q421 R023

Specific Compounds

12801K 12801C 12801Q 12801M

Chemical Indexing M3 *16*

Fragmentation Code

A424 A426 A427 A428 A430 A677 A940 A980 C106 C107
C520 C730 C801 C802 C803 C806 C807 M411 M730 M782
M904 M905 Q121 Q421 R023

Markush Compounds

200042-13201-K 200042-13201-C 200042-13201-Q 200042-13201-M

Chemical Indexing M3 *17*

Fragmentation Code

F012 F013 F014 F015 F016 F113 F123 H4 H403 H404
H422 H423 H481 H5 H521 H8 K0 L8 L810 L821
L831 M210 M211 M212 M213 M214 M215 M216 M220 M221
M222 M223 M224 M225 M226 M231 M232 M233 M272 M281
M311 M321 M342 M373 M391 M413 M510 M521 M530 M540
M730 M782 M904 M905 Q121 Q421 R023

Markush Compounds

200042-13203-K 200042-13203-C 200042-13203-Q 200042-13203-M

Chemical Indexing M3 *18*

Fragmentation Code

F012 F019 F100 F199 H583 H584 H589 L660 L699 M280
M311 M312 M313 M314 M315 M316 M321 M322 M323 M331

M332 M333 M340 M342 M373 M383 M391 M392 M393 M413
M510 M521 M522 M530 M540 M730 M782 M904 M905 Q121
Q421 R023
Ring Index
00012
Markush Compounds
200042-13202-K 200042-13202-C 200042-13202-Q 200042-13202-M

Chemical Indexing M3 *19*

Fragmentation Code
B415 B713 B720 B813 B831 M210 M211 M212 M213 M214
M215 M216 M220 M221 M222 M223 M224 M225 M226 M231
M232 M233 M272 M283 M320 M411 M510 M520 M530 M540
M620 M730 M782 M904 M905 Q121 Q421 R023
Markush Compounds
200042-13206-K 200042-13206-C 200042-13206-Q 200042-13206-M

Chemical Indexing M3 *20*

Fragmentation Code
B415 B701 B712 B720 B741 B815 B831 M210 M211 M212
M213 M214 M215 M216 M220 M221 M222 M223 M224 M225
M226 M231 M232 M233 M250 M272 M281 M282 M320 M411
M510 M520 M530 M540 M620 M730 M782 M904 M905 Q121
Q421 R023
Markush Compounds
200042-13205-K 200042-13205-C 200042-13205-Q 200042-13205-M

Chemical Indexing M3 *21*

Fragmentation Code
B415 B701 B713 B720 B815 B831 M210 M211 M212 M213
M214 M215 M216 M220 M221 M222 M223 M224 M225 M226
M231 M232 M233 M272 M283 M320 M411 M510 M520 M530
M540 M620 M730 M782 M904 M905 Q121 Q421 R023
Markush Compounds
200042-13204-K 200042-13204-C 200042-13204-Q 200042-13204-M

Chemical Indexing M3 *22*

Fragmentation Code
J0 J011 J3 J371 M210 M211 M212 M213 M214 M215
M216 M220 M221 M222 M223 M224 M225 M226 M231 M232
M233 M262 M281 M320 M416 M620 M730 M782 M904 M905
Q121 Q421 R023
Markush Compounds
200042-13209-K 200042-13209-C 200042-13209-Q 200042-13209-M

Chemical Indexing M3 *23*

Fragmentation Code
J0 J011 J2 J271 M210 M211 M212 M213 M214 M215
M216 M220 M221 M222 M223 M224 M225 M226 M231 M232
M233 M262 M272 M281 M320 M416 M620 M730 M782 M904

M905 Q121 Q421 R023
Markush Compounds
200042-13208-K 200042-13208-C 200042-13208-Q 200042-13208-M

Chemical Indexing M5 *24*

Fragmentation Code
M730 M782 M904 M905 M910 Q121 Q421 R023
Specific Compounds
07862K 07862C 07862Q 07862M
Registry Numbers
0486S 0486U

Chemical Indexing M3 *25*

Fragmentation Code
H4 H402 H403 H404 H405 H482 H483 H484 H5 H582
H583 H584 H589 H8 L630 L660 L699 M280 M311 M312
M313 M314 M315 M316 M321 M322 M323 M331 M332 M333
M334 M340 M342 M343 M344 M383 M393 M416 M620 M720
M904 M905 N153 N205 N209 N242 N262 N309 N342 N362
N442 N513 N522 Q110
Markush Compounds
200042-13207-K 200042-13207-P

Chemical Indexing M3 *26*

Fragmentation Code
H4 H402 H482 H5 H589 H8 M280 M313 M323 M332
M342 M383 M393 M423 M510 M520 M530 M540 M620 M730
M904 M905
Specific Compounds
23531K 23531S

Chemical Indexing M3 *27*

Fragmentation Code
F012 F100 M210 M211 M240 M281 M320 M413 M510 M521
M530 M540 M730 M904 M905 M910
Ring Index
00012
Specific Compounds
00370K 00370S
Registry Numbers
0370S 0370U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0370S; 0370U ; 0373S ; 0373U ;
0486S ; 0486U
; 1170S ; 1170U ; 1859S ; 1859U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]
018 ; G1558*R D01 F47 ; H0000 ; H0237*R ; P0055 ; L9999 L2573
L2506

; L9999 L2200 ; L9999 L2744 L2733 ; M9999 M2153*R ; M9999 M2200
; M9999 M2324 ; P1036 P0964 F34 D01 ; S9999 S1376 ; P0975*R P0964
F34 D01 D10
Polymer Index [1.2]
018 ; R00370 G1558 D01 D11 D10 D23 D22 D31 D42 D50 D73 D83 F47 ;
H0000 ; H0237*R ; P0055 ; L9999 L2573 L2506 ; L9999 L2200 ; L9999
L2744 L2733 ; M9999 M2153*R ; M9999 M2200 ; M9999 M2324 ; P1036
P0964 F34 D01 ; S9999 S1376 ; P8015 P0975 P0964 D01 D10 D11 D50
D83 F34
Polymer Index [1.3]
018 ; ND02 ; B9999 B4535 ; B9999 B3703 B3690 ; B9999 B5083 B4977
B4740 ; B9999 B4900 B4740 ; B9999 B3587 B3554 ; N9999 N6735*R
N6655
Polymer Index [1.4]
018 ; D00 D01 D61*R F12 K* 1A Co 8B Tr Gm Zn 2B D23 D22 D31 D73
D42 F34 F47 F90 F41 F91 D63 F33 F30 F36 F35 D19 D18 D76 D50 D60
F70*R P* 5A D12 D10 D58 D08 D17 D13 D34 D79 D94 D95 ; R00373
G3496
D01 D10 D11 D50 D84 F26 F27 ; C999 C102 C000 ; C999 C340 ; C999
C157 ; C999 C248 ; C999 C328 ; C999 C306 ; K9621*R
Polymer Index [2.1]
018 ; G1558*R D01 F47 ; R00370 G1558 D01 D11 D10 D23 D22 D31 D42
D50 D73 D83 F47 ; H0011*R ; H0077 H0044 H0011 ; P0055 ; P1058*R
P1592 P0964 H0260 F34 F77 H0044 H0011 D01
Polymer Index [2.2]
018 ; ND04
Polymer Index [3.1]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P0964*R F34 D01
Polymer Index [3.2]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P0839*R F41 D01 D63
Polymer Index [3.3]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P0862 P0839 F41 F44
D01 D63
Polymer Index [3.4]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P1707 P1694 D01
Polymer Index [3.5]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P1376 D01 D11 D10
F70
Polymer Index [3.6]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P1116 P1105 D01 D10
F07
Polymer Index [3.7]
018 ; R01859 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76
D92 F24 F29 F26 F34 H0293 P0599 G3623 ; M9999 M2379*R ; M9999

M2835
; L9999 L2391 ; L9999 L2379*R ; L9999 L2835 ; C999 C033 C000 ;
C999
C157
Polymer Index [3.8]
018 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999 L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; P0248 P0226 D01 F24
Polymer Index [3.9]
018 ; G1558*R D01 F47 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391
; L9999 L2379*R ; L9999 L2835 ; C999 C033 C000 ; C999 C157 ;
H0000
; P0055 ; P0975*R P0964 F34 D01 D10 ; M9999 M2153*R ; M9999 M2186
; M9999 M2200
Polymer Index [3.10]
018 ; G0340*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63
F41 F89 G0384*R G0635 D23 D22 D31 D41 D75 D86 F71 G0179 G0102 D19
D18 D76 D88 F31 F30 D11 ; R00446 G0282 G0271 G0260 G0022 D01 D12
D10 D26 D51 D53 D58 D60 D83 F36 F35 ; R00444 G0453 G0260 G0022
D01
D12 D10 D26 D51 D53 D58 D83 F70 F93 ; R00817 G0475 G0260 G0022
D01
D12 D10 D26 D51 D53 D58 D83 F12 ; R00824 G0588 G0022 D01 D11 D10
D12 D51 D53 D58 D83 F34 ; R00892 G0588 G0022 D01 D11 D10 D12 D51
D53 D58 D84 F34 ; R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58
D63 D84 F41 F89 ; R00438 G0679 G0022 D01 D11 D10 D12 D51 D53 D58
D84 F23 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ; L9999
L2379*R
; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; H0000 ; P1741 ;
P0088
; P0099 ; P0102
Polymer Index [3.11]
018 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58
D60 D83 F36 F35 ; R00444 G0453 G0260 G0022 D01 D12 D10 D26 D51
D53
D58 D83 F70 F93 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ;
L9999
L2379*R ; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; H0022 H0011
; P0088
Polymer Index [3.12]
018 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58
D60 D83 F36 F35 ; R00901 G0760 G0022 D01 D12 D10 D51 D53 D59 D60
D84 F37 F35 E00 E01 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391
; L9999 L2379*R ; L9999 L2835 ; C999 C033 C000 ; C999 C157 ;
H0022
H0011 ; P0088
Polymer Index [3.13]
018 ; G0635 G0022 D01 D12 D10 D23 D22 D31 D41 D51 D53 D58 D75 D86
F71 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58
D60 D83 F36 F35 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391 ;
L9999

L2379 R ; L9999 L2835 ; C999 C033 C000 ; C999 C157 ; H0022 H0011
; P0088

Polymer Index [3.14]

018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58
D76 D88 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53
D58 D60 D83 F36 F35 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391
; L9999 L2379*R ; L9999 L2835 ; C999 C033 C000 ; C999 C157 ;

H0022

H0011 ; P1741 ; P0088

Polymer Index [3.15]

018 ; R00843 G0760 G0022 D01 D23 D22 D31 D42 D51 D53 D59 D65 D75
D84 F39 E00 E01 ; R00901 G0760 G0022 D01 D12 D10 D51 D53 D59 D60
D84 F37 F35 E00 E01 ; M9999 M2379*R ; M9999 M2835 ; L9999 L2391
; L9999 L2379*R ; L9999 L2835 ; C999 C033 C000 ; C999 C157 ;

H0011*R

; H0293

Polymer Index [3.16]

018 ; R24032 R01863 G3623 D01 D11 D10 D23 D22 D31 D42 D50 D76 D86
F24 F29 F26 F34 H0293 P0599 ; M9999 M2379*R ; M9999 M2835 ; L9999
L2391 ; L9999 L2379*R ; L9999 L2835 ; C999 C033 C000 ; C999 C157

Polymer Index [3.17]

018 ; ND01 ; Q9999 Q6917

Polymer Index [3.18]

018 ; D00 D61*R F12 K* 1A Co 8B Tr Zn 2B Gm ; H0226

Polymer Index [3.19]

018 ; K* 1A Co 8B Tr Zn 2B Gm ; H0157

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